

WHAT IS CLAIMED IS:

1. A light, armored, all terrain vehicle, including:
 - a chassis with an armored envelope mounted thereon to protect preselected components and the occupants thereof;
 - at least four wheels including two rear wheels;
 - an engine for producing driving energy;
 - a total drive train for transmitting driving energy which includes a transmission, a drive shaft, and a rear differential;
 - a rear drive for transmitting driving energy from said total drive train to said rear wheels;
 - a frame including at least one box channel providing structural stability and strength to said vehicle;
 - an air intake arrangement to provide air to said engine; and
 - a cooling arrangement for cooling said engine,wherein said total drive train, said rear drive, said at least one box channel, and said air intake arrangement are enclosed within said armored envelope;
and wherein said armored envelope is fabricated to provide a predetermined degree of protection to its contents.
2. A vehicle according to claim 1, wherein said armored envelope includes perpendicular portions, parallel portions, and angled portions, with respect to said chassis; and wherein said perpendicular portions are fabricated of relatively thick armored plate and said angled and parallel portions are fabricated of relatively thin armored plate.
3. A vehicle according to claim 2, wherein said angled portions of said armored envelope are oriented at an angle in the range of 45° to 70° relative to the horizontal surface.

4. A vehicle according to claim 1, wherein said armored envelope further includes doors.
5. A vehicle according to claim 4, wherein said armored envelope and said doors further include overlap portions at the seams therebetween, providing protection from penetration of projectiles via said seams.
6. A vehicle according to claim 1, wherein said armored envelope further includes unopenable window portions to provide visibility from therewithin.
7. A vehicle according to claim 6, wherein said window portions include gun ports at preselected locations.
8. A vehicle according to claim 1, wherein said predetermined degree of protection provided by said armored envelope is protection against a 7.62 mm armor-piercing round.
9. A vehicle according to claim 2, wherein said relatively thick armored plate is ballistic steel of a thickness of at least 10 mm and said relatively thin armored plate is ballistic steel of a thickness in the range of 3 to 7 mm.
10. A vehicle according to claim 1, wherein said armored envelope further includes an undercarriage fabricated of armor plate, thereby completing the enclosure provided by said armored envelope.
11. A vehicle according to claim 1, wherein said at least one box channel further includes an air conduit for said air intake arrangement.

12. A vehicle according to claim 1, wherein said rear drive includes an independent rear wheel drive train for each of said rear wheels.
13. A vehicle according to claim 1, wherein said wheels include tires fabricated to continue to function when deflated.
14. A vehicle according to claim 13, wherein said tires are bead lock tires.
15. A vehicle according to claim 1, wherein said cooling arrangement includes a radiator and at least one fan with a predetermined spacing between said radiator and said at least one fan to allow sufficient air circulation through said radiator for effective functioning of said cooling arrangement.
16. A vehicle according to claim 1, wherein said cooling arrangement further includes at least two fans.
17. A vehicle according to claim 15, wherein said predetermined spacing between said radiator and said at least one fan is in the range of 3 to 4 inches.
18. A vehicle according to claim 1, wherein said armored envelope further includes a hatch located in an upper portion thereof.
19. A vehicle according to claim 1, further including a climate control system.

20. A vehicle according to claim 19, wherein said climate control system is configured to NBC standards and includes at least one blower for maintaining positive air pressure within said armored envelope and a filtered air inlet.